SONY®

Compact Disc Player

Operating Instructions

COMPACT
disc
DIGITAL AUDIO

CDP-C331

Owner's Record

The model and serial numbers are located at the rear.
Record these numbers in the spaces provided below.
Refer to these numbers whenever you call upon your Sony
dealer regarding this product.

Model No. CDP-C331 Serial No. _____

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.
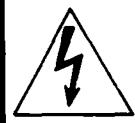
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
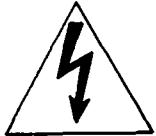
This symbol is intended to alert the user
to the presence of uninsulated "dangerous
voltage" within the product's enclosure
that may be of sufficient magnitude to
constitute a risk of electric shock to
persons.

This symbol is intended to alert the user
to the presence of important operating and
maintenance (servicing) instructions in the
literature accompanying the appliance.

INFORMATION

This equipment has been tested and found to comply with
the limits for a Class B digital device, pursuant to Part 15
of the FCC Rules. These limits are designed to provide
reasonable protection against harmful interference in a
residential installation. This equipment generates, uses,
and can radiate radio frequency energy and, if not installed
and used in accordance with the instructions, may cause
harmful interference to radio communications. However,
there is no guarantee that interference will not occur in a
particular installation. If this equipment does cause harmful
interference to radio or television reception, which can be
determined by turning the equipment off and on, the user
is encouraged to try to correct the interference by one or
more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and
   receiver.
– Connect the equipment into an outlet on a circuit
   different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV
   technician for help.

CAUTION

You are cautioned that any changes or modifications not
expressly approved in this manual could void your
authority to operate this equipment.

For the customers in Canada

┌─ **CAUTION:** ──────────────────────────┐
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS
POLARIZED AC PLUG WITH AN EXTENSION CORD,
RECEPTACLE OR OTHER OUTLET UNLESS THE
BLADES CAN BE FULLY INSERTED TO PREVENT
BLADE EXPOSURE.
└───┘

┌───┐
THIS APPARATUS COMPLIES WITH THE CLASS B
LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN
RADIO INTERFERENCE REGULATIONS.
└───┘

Table of Contents

Introduction

This unit is equipped with 5 disc trays which allow you to choose from a large number and wide variety of selections. Any disc at any time can be played using the DISC 1 to 5 buttons.

Enjoy listening in various playing modes

You can select the playing modes among the following:

Continuous play (page 7)	– The entire disc(s) is played once.
Shuffle play (page 10)	– Selections are played in a random order.
Repeat play (page 11)	– Single selection or disc(s) are played repeatedly.
Program play (page 12)	– Selections are played in your desired order.

Editing your own tapes

- You can confirm the total playing time while choosing the selections to be programmed. – Program edit (page 12)
- The player can program selections automatically to fit in a desired duration. – Time edit (page 14)
- You can stop the play, fading out at the desired time. – Time fade (page 16)
- The loudest portion of the disc will be determined and played repeatedly. – Peak search (page 16)

Easy-to-see display

The selection number, the playing time, the remaining time are displayed by pressing the TIME button. And also playing modes like repeat, shuffle, program are displayed in the display window. (page 8)

Note on the Transit Key

The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.

Transit key

Precautions

Installation
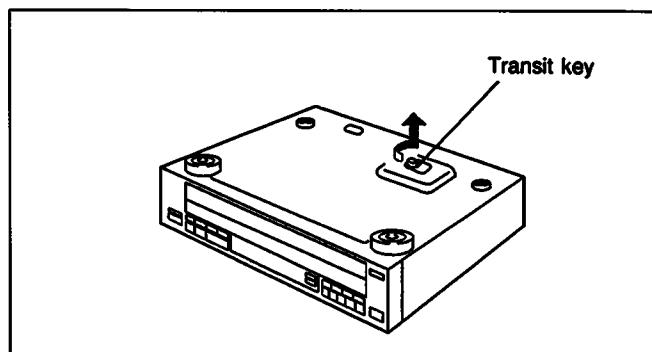
On safety
- Operate the unit only on 120 V AC, 60 Hz.

- Should any liquid or solid object fall into the cabinet. Unplug the unit and have it checked by qualified personnel before operating it any further.

- Unplug the unit from the wall outlet if it will not be used for a long time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

- As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

On operation
When the unit is not used, turn the power off, to conserve energy and to extend the useful life of your unit.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS". (Model for USA)

If you have any questions or problems concerning your unit, please contact you nearest Sony dealer.

Placing Your Unit

- Place the unit in a location with adequate air circulation to prevent internal heat buildup in the unit.

- Do not place the unit on a soft surface, such as a rug that would block the ventilation holes on the bottom.

- Do not install the unit.
  - near heat sources such as radiators or air ducts.
  - in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

**Not this way.**
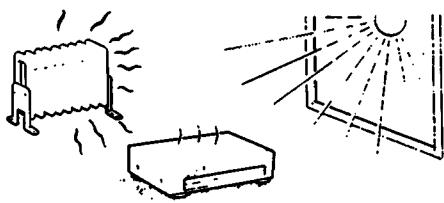
On moisture condensation
If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the player will not operate. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

Connections

For Correct Connections

- Turn off the power of each unit before making connections.
- Connect the AC power cord last.
- Be sure to insert the plugs firmly into the jacks. Loose connection may cause hum and noise.

- Leave a little slack in the connecting cord to allow for inadvertent shock and vibration.
- Cord plugs and jacks are color coded: Red plugs and jacks are for the right channel (R) and white ones for the left channel (L).

To Connect to an Amplifier

CDP-C331   Speaker system

LINE OUT

To AC outlet

SPEAKER

Amplifier

CD

To wall outlet
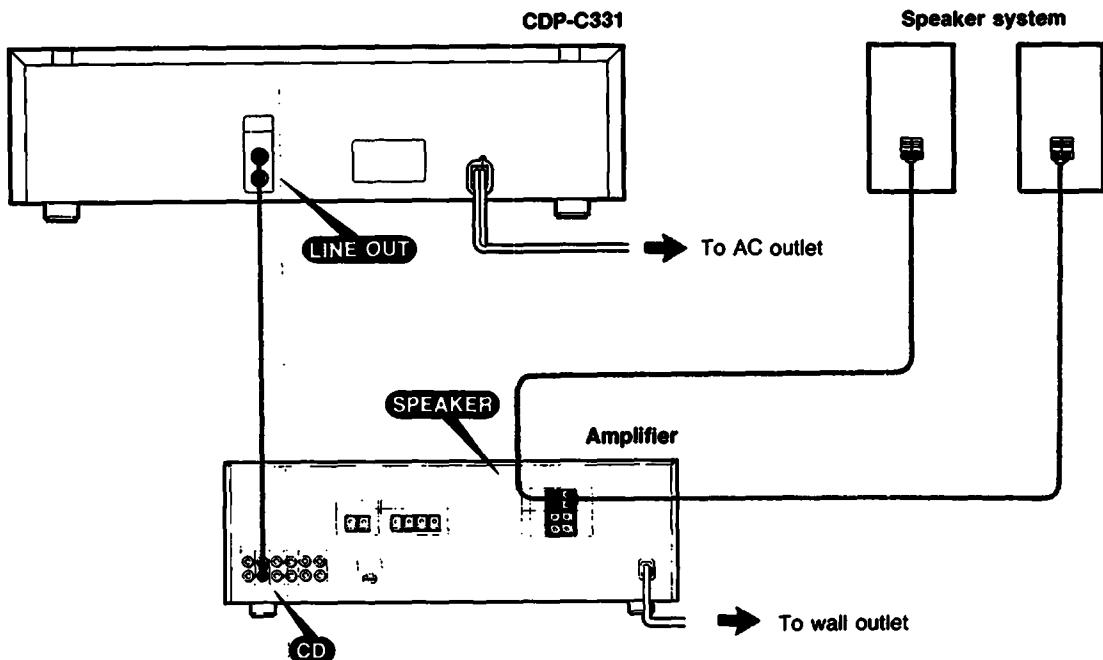
Location of Controls

Front Panel
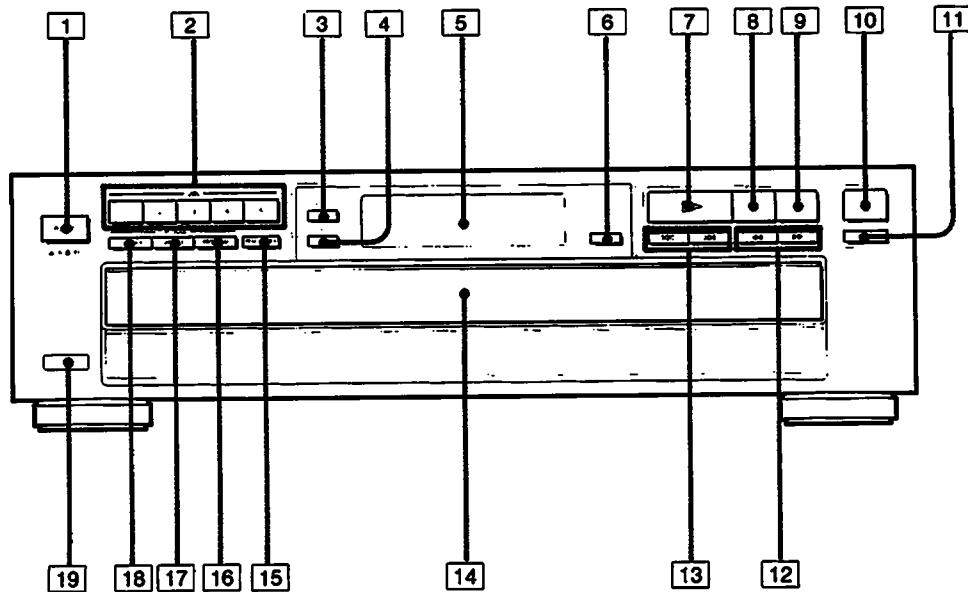
Refer to the pages indicated in ( ) for details.

[1] POWER switch (page 7)	[11] DISC SKIP button (page 7)
[2] DISC 1-5 buttons (page 7)	[12] ◄◄/►► (manual search) buttons (page 9)
[3] REPEAT button (page 11)	[13] I◄◄/►►I (AMS*) buttons (page 9)
[4] TIME button (page 8)	[14] Disc tray (page 7)
[5] Display window	[15] PEAK SEARCH button (page 16)
[6] EDIT/TIME FADE button (page 14)	[16] PROGRAM button (page 12)
[7] ► (play) button (page 7)	[17] SHUFFLE button (page 10)
[8] II (pause) button (page 7)	[18] CONTINUE button (page 7)
[9] ■ (stop) button (page 7)	[19] Remote sensor
[10] ▲ OPEN/CLOSE button (page 7)	

* AMS is the abbreviation of Automatic Music Sensor.

Playing a Disc
– Continuous Play

Before playing a disc, turn on the amplifier and set the input selector to the CD player position.

1

POWER

2

OPEN/CLOSE →

Label side up

Disc No.

Disc tray
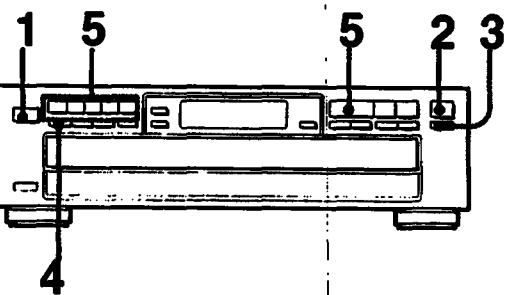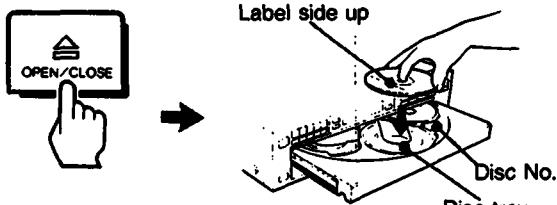
3 To play more than one disc, place up to 4 more discs in the tray.

DISC SKIP →
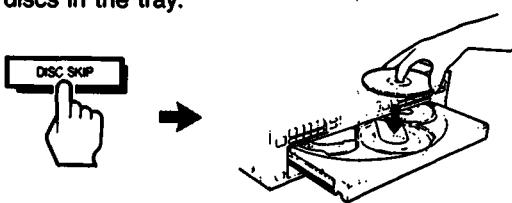
4 Choose whether to play one disc (1 DISC) or all discs (ALL DISCS).

CONTINUE

ALL DISCS ① ② ③ ④ ⑤

1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20

5

▷ or
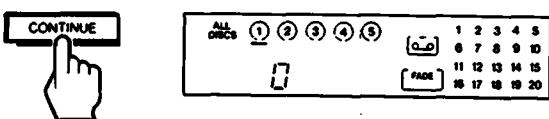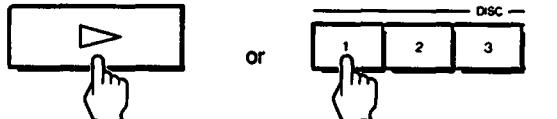
DISC
1 2 3

When the playback of all selections of a disc has been finished, the circle on the tray number goes off.

Music calendar

ALL DISCS ① ② ③ ④ ⑤

1 2 3 4 5
6 7 8 9 10

▶

2.08

Selection number   Elapsed playing time
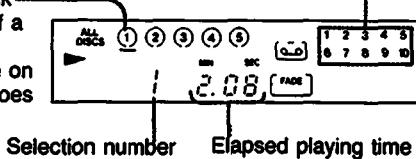
To stop play
To stop for a moment during play, press ‖.
Press ► or ‖ to resume play.
To stop play, press ■.
To stop play and open the tray, press ▲.

To start playing from the immediate beginning of a selection.
Press ‖ in the stop mode. The unit enters the pause mode at the immediate beginning of the selection.
Press ► or ‖ to start playing the selection from the immediate beginning. This function is convenient when recording, as it eliminates the seconds prior to the start of selections. You cannot use this function in the program play mode.

Caution on adjusting volume
Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do the speakers may be damaged when a peak level portion is played.

Note
The tray number of an empty tray will be displayed until the empty tray number is set to play. Once it is recognized as empty, it will disappear.

Notes on handling discs
• To keep the disc clean, handle the disc by its edge. Do not touch the surface.
• Do not stick paper or tape on the disc.

• Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as temperature may rise considerably.
• After playing, store the disc in its case.

To play an 8 cm (3-inch) CD
Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12 cm/5-inch) on top of an 8 cm CD.

What is this indication?

no disc

This indication appears when there is no disc at all in the tray.

The circle shows that the disc which the playback has not been finished yet, is loaded.

Disc number   Music calendar

Total playing time

Total number of the selection in the disc

Shows the disc number to be played back or being played back
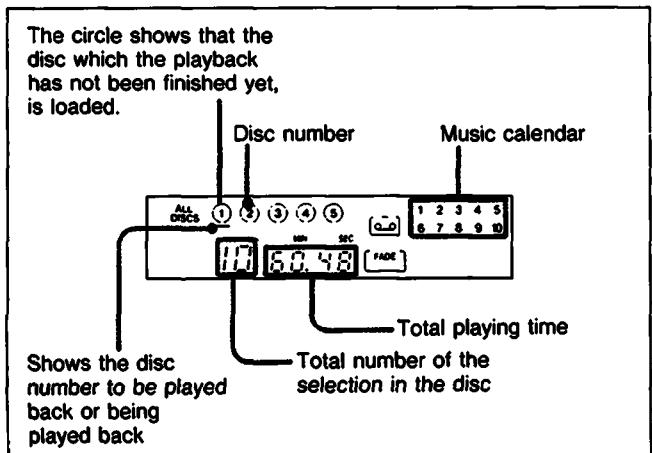
Information Display

When the disc tray is closed by pressing ▲, the total number of selections and the total playing time of the disc to be played are displayed for a few seconds.
If you press TIME during stop, the total number of selections and the total playing time of the disc to be played can be displayed.
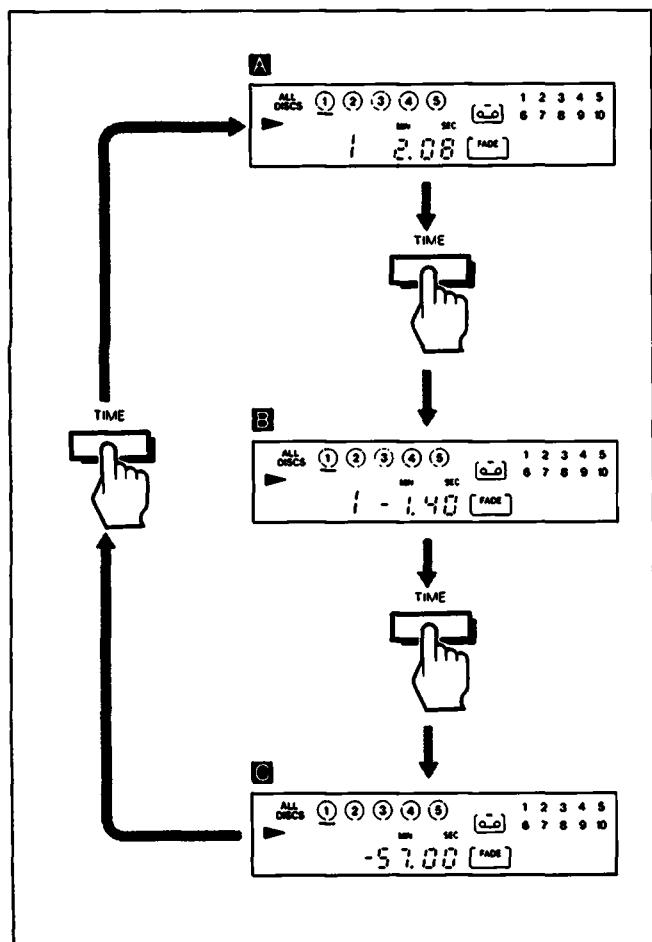
Each time you press TIME during play, the display changes to give you the following information.

A Elapsed time in a selection (automatically displayed when play begins)

B Remaining time in the selection
"- -.- -" indication will appear in the display window instead of the actual time, if a selection numbered 21 or higher is selected.

C Remaining time of the disc

A

TIME

B

TIME

C

Notes
• Total remaining time is only available during continuous mode. It will not be displayed by pressing the TIME button during program or shuffle mode.
• Total remaining time will be displayed, if time fade is set during program or shuffle mode.

DISC 1-5   DISC SKIP

|◀◀/▶▶| ◀◀/▶▶
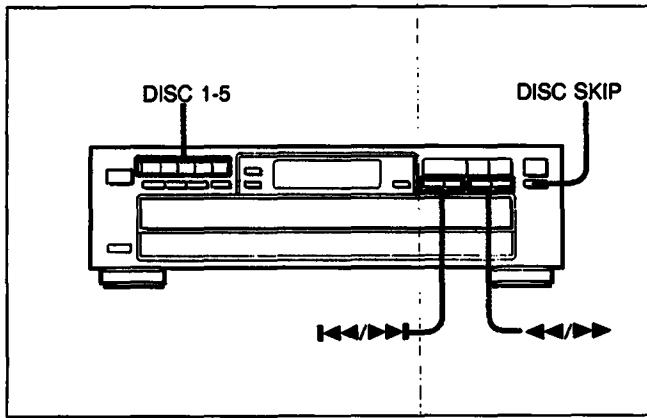
Selecting a Desired Disc

By using the DISC 1 to 5 buttons or the DISC SKIP button during play, you can locate the beginning of any disc.

To select a particular disc	Press the corresponding DISC 1 to 5 button.
To move to the disc tray next to the current one	Press DISC SKIP button.

Locating a Particular Selection

Locating a selection in sequence (Automatic Music Sensor)
You can locate the beginning of a selection on the disc being played.

To locate the beginning of the selection being played	Press ⏮ once.
To locate the beginning of the next selection	Press ⏭ once.

Continue to press until the selection you want is located.

Locating a Particular Point in a Selection

Locating a point in sequence (Manual Search)
You can locate a particular point during playback by monitoring the high-speed sound.

To go back at high speed	Keep ◀◀ pressed.
To go ahead at high speed	Keep ▶▶ pressed.

Release the button when you reach the point you want.

To locate at higher speed
Press ◀◀ or ▶▶ in the pause mode. Search speed will increase three times, but there will be no sound. Find the desired point by watching the number in the display.

9

Playing in a Random Order – Shuffle Play
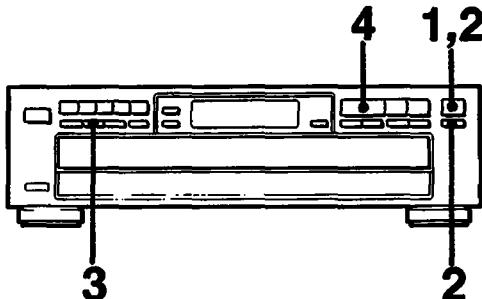

1 Press ⏏ to open the disc tray.

2 Place a disc with the label side up. To play more than one disc, press DISC SKIP to turn the disc tray and place up to 5 discs.
After placing discs, press ⏏ to close the disc tray.

Disc No.

Disc tray
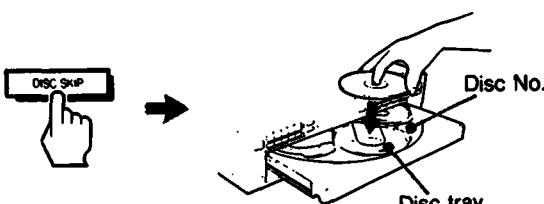
3 Press SHUFFLE to set to the ALL DISCS mode.
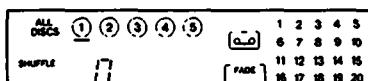
4 Press ▶ to start playback.
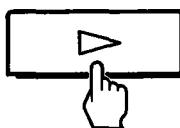
You can have the selections (up to 99) played in a random order. The unit will play all the discs or just one disc you desire.
Once a selection is played, it will not be played again until the random order is completed.

To stop playing
Press ■.

To cancel shuffle play
Press CONTINUE and return to the continuous playing mode.

To change from program or continuous play to shuffle play
Press SHUFFLE during program or continuous play. The program mode will be cleared and shuffle play will begin from the current selection being played.

What is this indication?
⌐ ⌐   This indication appears while the player is "shuffling"
L ⌐J   the selections.

To Play only the Desired Disc in a Random Order

1 Press SHUFFLE to set to the 1 DISC mode.
2 Select the desired disc number with the DISC 1 to 5 buttons.
The unit starts playback automatically.

**To cancel a disc which you have selected**
Press the DISC 1-5 buttons to be canceled. A circle will disappear around the selected disc number.

To put back all discs which you have deleted, press ■ during stop mode.

Note
During shuffle play in ALL DISCS mode, DISC 1-5, MUSIC SCAN, EDIT/TIME FADE, and PEAK SEARCH buttons do not function.

Playing Repeatedly – Repeat Play

REPEAT

Press before or during play.

REPEAT

In the 1 DISC mode, press REPEAT so that "REPEAT"
appears on the display. The unit repeats all selections
of a disc. Press REPEAT so that "REPEAT 1" appears.
The unit repeats one selection.
In the ALL DISCS mode, Press REPEAT so that
"REPEAT" appears on the display. The unit repeats all
selections of all discs. Press REPEAT so that
"REPEAT 1" appears. The unit repeats one selection.

To cancel repeat play
Press REPEAT again. "REPEAT" disappears.

You can make a program by designating up to 32 steps in the order you want them to be played. The unit will play the disc according to your program. This function is very convenient for recording on the cassette tape.
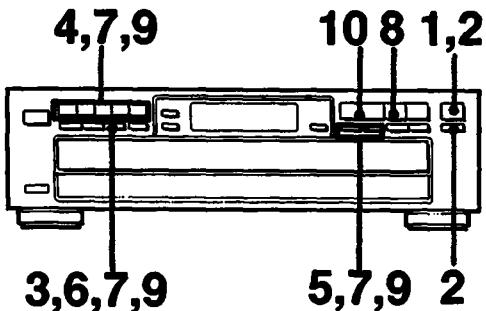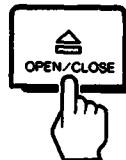
```
      4,7,9        10 8 1,2


      3,6,7,9       5,7,9  2
```

1 Press ▲ to open the disc tray.

OPEN/CLOSE ▲

2 Place a disc with the label side up. To play more than one disc, press DISC SKIP to turn the disc tray and place up to 5 discs.
After placing discs, press ▲ to close the disc tray.

DISC SKIP → Disc No. / Disc tray
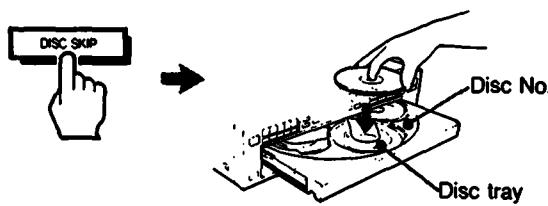
3 Press PROGRAM so that "PROGRAM" appears on the display.

PROGRAM

4 Choose the disc.
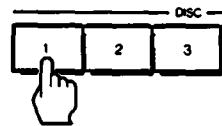
— DISC —
1 2 3

If you program a whole disc, see "To program a whole disc".

**5** Press ◄◄ or ►►I repeatedly until the desired selection is located.

◄◄   ►►I

Total time

PROGRAM ᴣ 3.28

Current selection
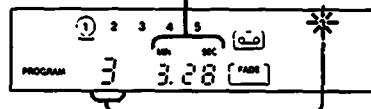
6 Press PROGRAM after the desired selection has been chosen.

PROGRAM

PROGRAM ᴣ 3.28
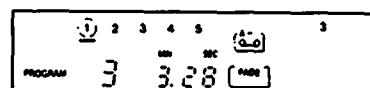
The selection is stored, and the blinking number in the window light up.

7 To program additional selections from the same disc, repeat steps 5 and 6.
To program additional selections from another disc, repeat steps 4,5 and 6.
• You can make a program for recording on the both sides of the tape at one time by performing step 1 to 6.

8 If you program the selections for side B, press II to insert a pause.

"B" lights up

PROGRAM P 0.00
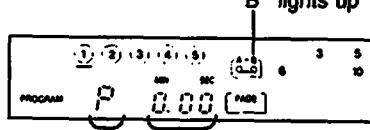
Pause   Total time will return to "0.00"

A pause is counted as one programming step.

9 Program the selections for side B.
Repeat steps 4 to 7 (or 5 to 7).

10 Press ► to start playback.

▷
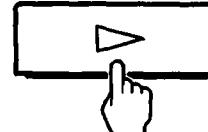
The selections for side A will start playback.

To program a whole disc
- Using DISC 1 to 5
  Alter steps 1 and 2:
  1 Press DISC 1 to 5 to select the disc.
    "AL" is displayed on the display.
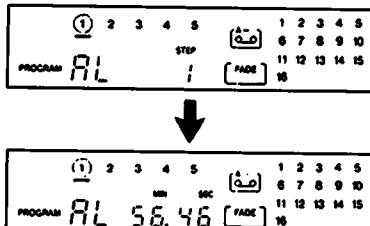
  2 Go on to step 5.
- Using DISC SKIP
  After steps 1 and 2:
  1 Press DISC SKIP. "AL" is displayed on the display.
  2 Press PROGRAM.
  3 Go on to step 5.
The whole disc is programmed as one step.

To program while observing the disc labels
You can program the selections with the disc tray open.

To play the selections for side B
When the selections for side A have been played, the unit will pause. ("B" lights up.)
Set the tape to the beginning of side B, then press ▶ or
▌▌.
The selections for side B will start playback.

To stop program play
Press ■. The last selection number programmed will be displayed.
To resume playback, press ▶. Play begins from the beginning of the program.
You can play the same program repeatedly as long as you do not cancel program play or erase the program.

To cancel program play
Press CONTINUE and return to the continuous playback mode. The program will be erased.

Skipping to the next selection programmed
Press ▶▶▌ during playback.

Going back to the beginning of the selection being played
Press ▌◀◀ during playback.

To cancel all the selections programmed
Press ■ to cancel.

Notes
- The playing time for selection numbers higher than 20 will not be added into the total playing time.
- When selections have been programmed for sides A and B, the total playing time displayed in stop mode will show the selections programmed for side B and the total playing time for side B.

13

You can designate a time and the unit will make 2 different programs of selections each fitting within that period. Use this function by designating the length of your tape for editing both sides of a tape.
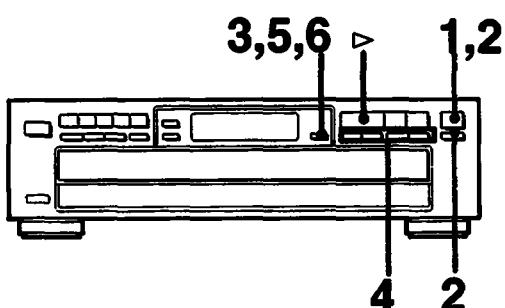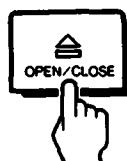
3,5,6 ▷   **1,2**

4   2

1 Press ▲ to open the disc tray.

OPEN/CLOSE

2 Place a disc with the label side up. To play more than one disc, press DISC SKIP to turn the disc tray and place up to 5 discs.
After placing discs, press ▲ to close the disc tray.

DISC SKIP → Disc No.

Disc tray
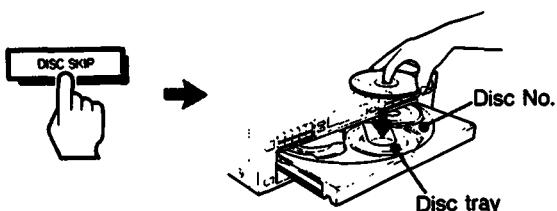
3 Press EDIT/TIME FADE.

EDIT/TIME FADE

"EDIT" lights up and "A" flashes.

ALL DISCS ① ② ③ ④ ⑤   EDIT   1 2 3 4 5   6 7 8 9 10   11 12 13 14 15 16

flashes
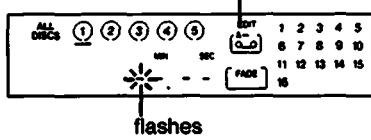
4 Designate the length of one side of your tape.

• To set the minute

|◀◀   ▶▶|
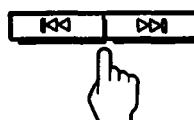
Each time |◀◀/▶▶| is pressed, the time changes as followings:

Press |◀◀   Press ▶▶|

C-90 (45.00 min.) ———— C-46 (23.00 min.)

C-74 (37.00 min.) — C-60 (30.00 min.) — C-54 (27.00 min.)

• To set the seconds, press ◀◀/▶▶.
The time increases or decreases by 10 seconds.

ALL DISCS ① ② ③ ④ ⑤   1 2 3 4 5   6 7 8 9 10
C - 46 [FADE]   11 12 13 14 15 16

↓ After 1 second

ALL DISCS ① ② ③ ④ ⑤   1 2 3 4 5   6 7 8 9 10
23.00 [FADE]   11 12 13 14 15 16
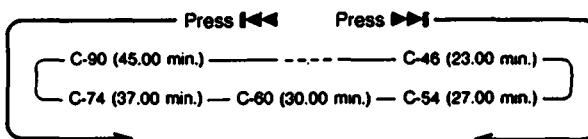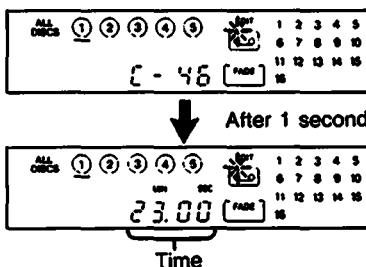
Time

Note
Total playing time can be set up to 59 minutes 50 seconds.

5 Press EDIT/TIME FADE.

EDIT/TIME FADE

The program for side A is completed.
If "LINK" flashes during side B program, see "To add selection(s)" on the next page.

① 2 3 4 5   1 2 3 4   5 6 7 8 9 10 — Chosen selections
PROGRAM *10   22.28* [FADE]

Last of programmed   Total playing time
selection
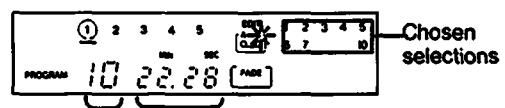
6 Pres EDIT/TIME FADE once more, to make a program for the other side of your tape. If "LINK" flashes, see "To add selection(s)".

To add selection(s) — LINK —
After all selections on the disc have been programmed, if
there is the selection that fit in the remaining time, "LINK"
and the selection numbers will flash.
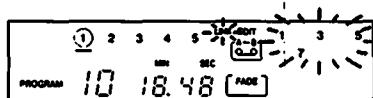
To add selection, press EDIT/TIME FADE again.
A program wil be made automatically to fit the playing time
as close as possible to the reamining time.
If the remaining time can contain other selection(s),
"LINK" and the selection number keep flashing. When
"LINK" flashes, if the disc is changed by another disc, the
new selection number(s) on the new disc that fit in the
remaining time will flash.
"EDIT" disappears when the playing time becomes equal
to the designated time. Whether "LINK" is flashing or not,
you can change the disc by another disc and choose
selection(s) to fit the remaining time.

To play the program
Press ▶.
The selections for side A will be played and then the unit
will pause. "B" lights up in the tape side indicator. Set the
tape to the beginning of side B, then press ▶ or ❚❚.
The selections for side B will be played.

Note
Playback can be performed when "EDIT" is displayed.

To stop playback
Press ■.
You can play the same program repeatedly as long as you
do not cancel time edit or erase the program.

To cancel time edit
Press CONTINUE and return to the continuous playing
mode.
The program will be erased.

To erase the entire program
Press ■ once during stop; twice during playback.
The program is also erased, when you turn off the unit.

To include desired selections in the program
1 Make your own program of the desired selections.
   See page 17 for instructions.
2 Follow the procedure as shown on the preceding page.
   Just designate the length of your tape, and you need
   not to subtract the playing time of your program. The
   unit wil place your selections at the beginning of its
   program and add other selections to fit the remaining
   time.

Tips on Editing Tapes

The following functions are convenient for editing your own tapes.

Fading out after a desired duration – Time Fade

You can have the play fade out at the end by designating the play duration. Once time fade is set, it functions twice for editing both sides of a tape. You can change discs without canceling this function. The fade time is preset to 5 seconds.

To set time fade
1 Press EDIT/TIME FADE twice during stop.
   [ᴱᵈⁱᵗ] is displayed in the window.

2 Set the desired play duration, using I◄◄/►►I and ◄◄/►► buttons.

   e.g. To set the minutes. Each time you press I◄◄/►►I the time changes in the following way.

   ```
   ┌─────── Press I◄◄    Press ►►I ────────┐
   │  ┌─ C-90 (45.00 min.) ── --.-- ── C-46 (23.00 min.) ─┐  │
   │  └─ C-74 (37.00 min.) ── C-60 (30.00 min.) ── C-54 (27.00 min.) ─┘  │
   └────────►                          ◄────────┘
   ```
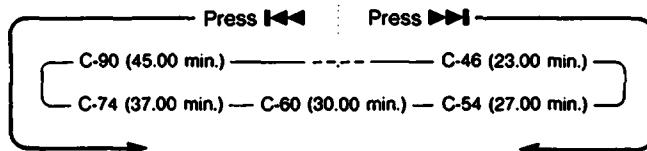
   To set the seconds, press ◄◄/►►. The time increases or decreases by 10 seconds.

Note
The desired play duration can be set up to 59 minutes 50 seconds.

3 To start play, press ►.
   After the designated time, play fades out and pauses. Tape side B lights up. Press II or ► to resume playing for the other side of the tape. When the play fades out for the second time, the unit pauses and the time fade function is canceled.

When playback of a disc ended before the designated playing time
The time fade function will remain effective even for a new disc(s) added for the remaining playing time originally designated, and the fade out starts in accordance with the initially set fade time.

To cancel time fade
Time fade will be canceled when
– EDIT/TIME FADE is pressed once again.
– ◄◄/►► (manual search) is pressed during play.

To display the time remaining until the time set
Press TIME twice.

If the PEAK SEARCH is pressed after setting time fade, time fade is released but peak search is kept active.

Locating the loudest portion of the disc – Peak Search

The unit will scan a disc from beginning to end and determine the loudest portion (peak level) of the disc, and then play that portion repeatedly. This function will make it easier for you to adjust to the optimum level when recording on tape. You can use this function in the continuous or shuffle play mode only for a disc which is in play position currently, and in the program play mode for the selections of the entire program.

To set peak search
Press PEAK SEARCH in the stop mode. "PEAK" flashes in the window. The entire tracks in a disc or program will be searched automatically. "PEAK" lights up and the loudest portion will be played repeatedly for 4 seconds. Adjust the recording level on your tape deck according to the peak level.

Note
To go to another disc press DISC SKIP during stop.

To stop peak search
Press ■.
Press II to pause at the first selection.

To start play immediately
Press ►.

Note on peak search function
The unit determines the loudest portion (peak level) of a disc by searching it at fixed intervals. As a result, the portion searched may differ from the actual peak level. In addition, this function may determine different portions as the peak level for the same disc. However, the difference between the portion searched and the actual peak level is insignificant and will not present any problem in adjusting the recording level.


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Maintenance

Cleaning the Cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad scouring powder or solvent such as alcohol or benzine.

Cleaning Discs

Before playing, clean the disc with the cleaning cloth. Wipe the disc from the center out.
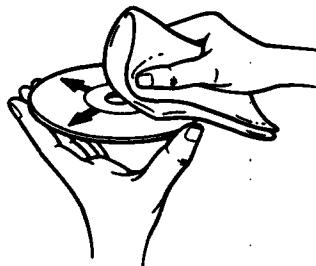
Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

After playing, store the disc in its case.

Specifications

System	Compact disc digital audio system
Laser	Semiconductor laser
Wavelength	780-790 nm
Frequency response	2 Hz – 20 kHz (±1.5 dB)
Signal to noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.01% (1 kHz)
Channel separation	More than 85 dB (1 kHz)
Wow and flutter	Below measurable limit
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms

General

Power requirements	120 V AC, 60Hz
Power consumption	12 W
Dimensions	Approx. 430 × 125 × 385 mm (w/h/d) (17 × 5 × 15¼ inches) including projecting parts and controls
Mass	Approx. 6 kg (13 lbs 4 oz), net

Supplied accessories
Audio signal connecting cord
(phono plug × 2 ↔ phono plug × 2) (1)

Design and specifications are subject to change without notice.

Troubleshooting Guide

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility. Before going through the check list below, first refer back to the connection an operating procedures.

Trouble	Causes	Remedy
No audio from one or both channels	Incorrect operation of the amplifier	Operate correctly.
	Loose connection	Connect the cords firmly.
Play does not begin.	No disc in the disc compartment	Put disc(s) in the compartment.
	The player is in the pause mode.	Press ► or II to release pause.
	Moisture condensation	Leave the player turned on for about an hour.
	The disc is set upside down.	Set the disc with the label side up.
	The disc is tilted.	Set the disc correctly.
	The disc is extremely dirty.	Clean the disc.
Any operation is not possible.	The internal control program may not run.	Turn off the power and turn it on again.